Fig. 1

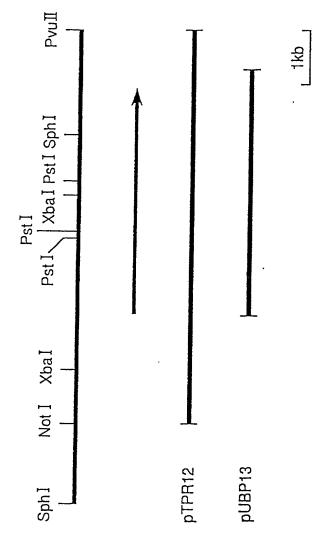


Fig. 2

170 175 180

Asp Gly Ser Gly Val Val Val Ala Val Leu Asp Thr Gly Val 5'-GAT GGT AGT GGT GTT GTT GCA GTA CTT GAC ACG GGA GTT-3'

PRO-1F 5'-GGW WSD RRT GTT RRH GTH GCD GTD MTY GAC ACB GG-3'

Fig. 3

365 370 375

His Gly His Gly Thr His Val Ala Gly Thr Val Ala Gly Tyr 5'-CAC GGT CAC GGA ACT CAC GTA GCT GGA ACT GTT GCT GGT TAC-3'

PRO-2F 5'-KST CAC GGA ACT CAC GTD GCB GGH ACD GTT GC-3'
PRO-2R 3'-GTG CCT TGA GTG CAH CGV CCK TGH CAA CGM CSA-5'

Fig. 4

590 595

Ser Gly Thr Ser Met Ala Thr Pro His Val Ser Gly Val Val 5'-TCT GGA ACT TCG ATG GCT ACT CCA CAT GTC AGC GGT GTC GTT-3'

PRO-4R 3'-CCD TGV AGB TAC CGD WGA GGB GTR CAV YSG CCH C-5'

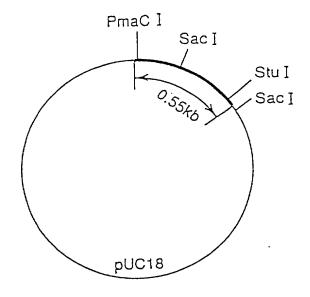


Fig. 6

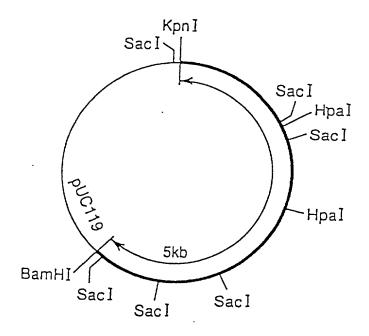


Fig. 7

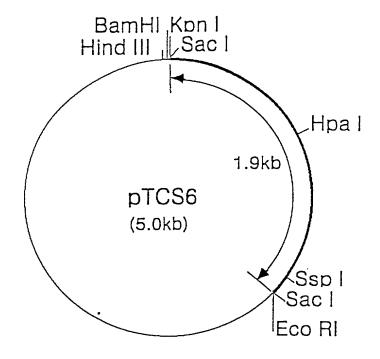
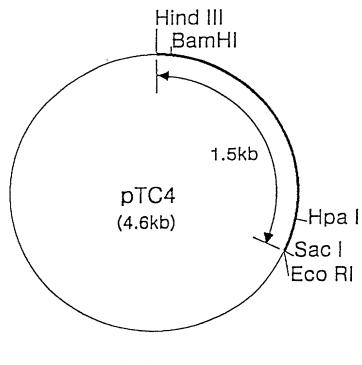
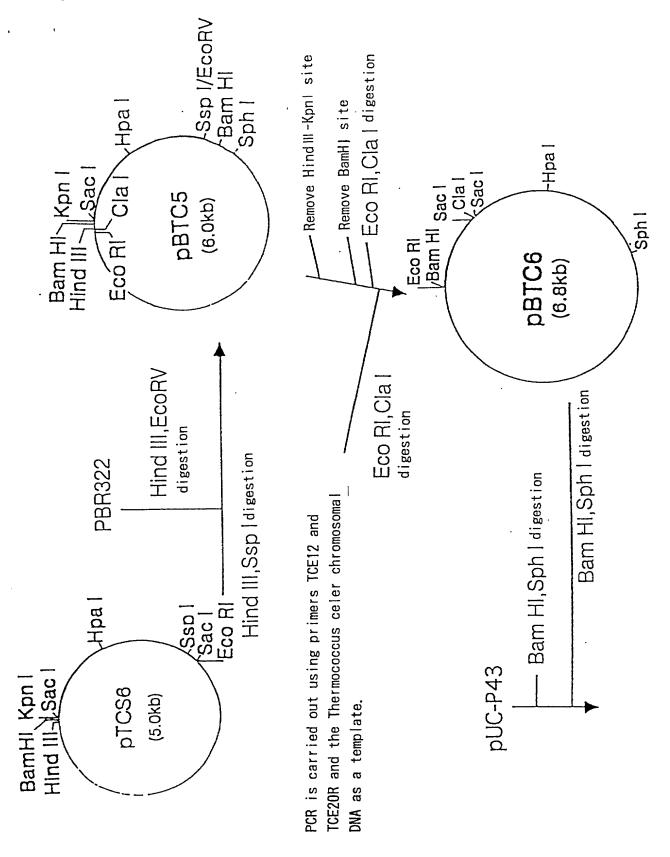


Fig. 8





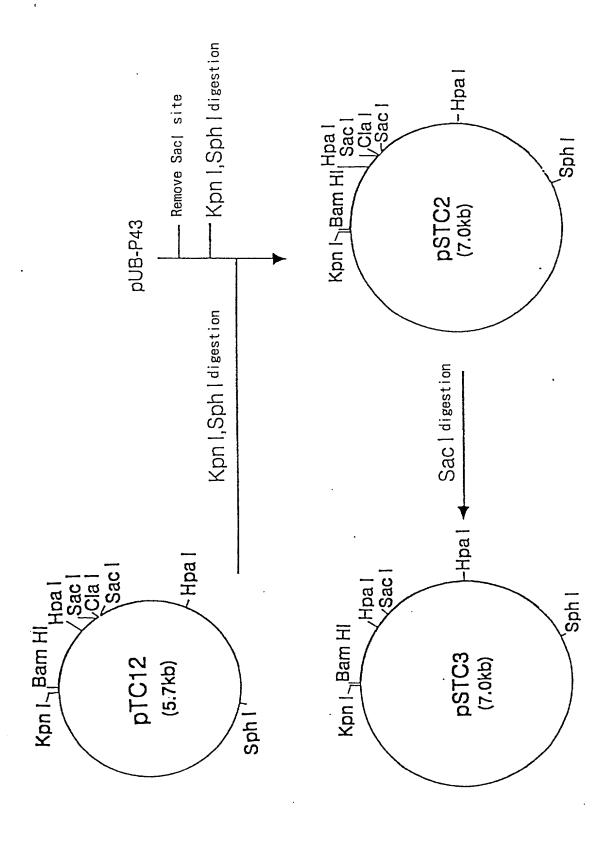
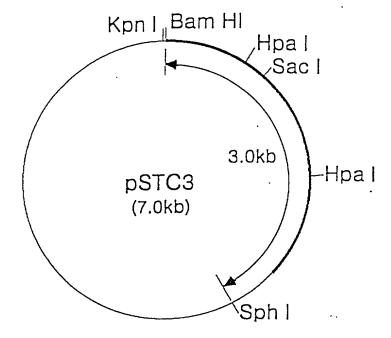


Fig. 10



` F'ig. 11

50 LPNQQVVTKE VVRNNAVQQK MRGKKVWISL	100 ILDENRVLNM LRLMGAQVKY MSAAKKKDVI	150 TKEPSLEPKM QEDYKVQVDD DHVAHAYAQS	200 ITPDGRRKII GKVIGWYDAV VAGGASMVPS	250 ESTGLMEYVV 	300 FYPVLLVNST
40 VSSENSTTSI GTALAAPVKP	90 KTELEKLGAE YGDRDRAVKV IVGFKQTMST	140 SPPIVEKDVK NTRVSGIKFI KDPSVAYVEE	190 GVDPNHFFES GTDANHPDFK GTDSSHPDFK	240 FQVASGLTLN 	290 DLNFDGDQED
30. VHFVSAETPP LALVLVGLLA	80 KTKEGKLEEA EVDTVIMFGS AGKSNGEKKY	130 KAWLNREVKL AGMIDTGYFG LNEKAVKELK	180 SGVVVAVLDT SGVVVALVDT SNVKVAVLDS	230 VNGTLIINTT 	280 HFGLLPERYF
20 IAIMLLSVVP MKRLGAVV	70 KGQPNMVLII KKVQRMNWNQ AFGSTSSAQA	120 KELNYISSLE KIKARDLLLI FKYVDAASAT	170 QFIQEF <mark>GYDG</mark> TVWNSLGYDG PALHSQGYTG	220 VDTSFSFSKV 	270 GNITSANGIY
10 MNKKGLTVLF	60 VSQAALNAIM NYGLLTPGLF LFALALIFTM	110 LLVKIKPEKV SYKIIPAVAV SEKGGKVQKQ	160 YNSTWVINAL ATSVSQIGAD VPYGVSQIKA	210 EWKDFTDEGF NGRSTPYDDQ ETNPFQDNN-	260 KTVYVSNVTI
PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN

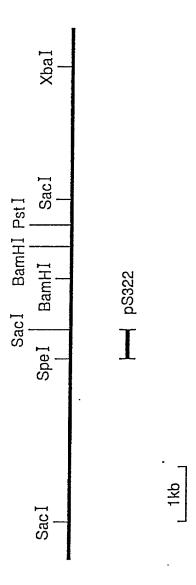
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340 DVAVFSYYYG 	390 DAWDWLSMYS S Q	440 GRGSMWDTTE GSGSVSTTTA GSGQYSWITA	490 LTEKY <mark>GVV</mark> FV AWDA-GIVVC AVAS-GVVVV	540 SQALGYPDYY 	590 S HE MWIGGAD PRASGTSMGT T HE GNKYGA-
330. VPLGQYNVTY 	380 GTVAGYDSINN GIVAGTGSVIN GTVAALINN	430 IMAIRWIRSD IVGVKVLGAD IYAVKVLGAD	480 IDSESVAVDE IDSESQAVNN SAALKAAVD	530 AVPINVGVYV DSNDN DSSNQ	580 VVAPGYGIYS VVAPGVDIIA VMAPGVSIQS
320 TDLDYDFTDE 	370 DGH <mark>GHGTHVA</mark> GHGTHVA SHGTHVA	420 T <mark>V</mark> QGVAPGAQ -YIGVAPGAK GVLGVAPSAS	470 IGGNAPYLDG IGSSQSS-DG IGGPSG	520 ATKATTVGAA ASKVTTVGAV YPSVIAVGAV	570 Prideriken Ptaderikee Peld
310 GNGYDIAYVD 	360 PNGEYAVFGW 	410 GWDYTNVTTD 	460 DVISMS KYGIRVINLS DVINMS	510 NI VGSPG V Y TVGSP AA SSS TVG Y PG K	560 VRIAFFSSRG IASFSSRG RASFSSVG
PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN

•	650° Eweeppytg Divapkeiad Eke-ees	700 YSDFAEYLGV HTFDVSGATF	750 KPFVSGSVIL YYNPTAGTWT	800 LNTIVIPEKF TTDTQTFTGS	850 DYGLYRPDGM DPNGNLVDRS	900 VRIYGVEITP YYG*	950 YNASVESVGD
	640 IIKKV <mark>le</mark> SG A ALIETA SIENT	690 PIVDHWADKS GSVADKGSAT	740 FEIYATEPWI TAYYGFEKVG	790 PTTPVIEDEI NPNPNPTP	840 DVLYAMTTYW SYNDLDLYLY	890 FAPLYESGFL WADYQLKAVV	940 ATLIPIGLGT
	630 KAEGIYYNPD PSWTPDKVKT PNWTNTQVRS	680 ILKAINGTTL YDDYAKLTFT *	730 KYVGDTEYRT PNGNEVDYSY	780 LYVGRIIIDD SLSQSGGGNP	830 HHFFTVPEGV KITGDLTFDT	880 NWELVWTGFN FLVYAYRTYG	930 NITNIYAPIN
	620 GVARLLISGA GVAALTLQAH GAAALTLSKH	670 GLVNVTKSWE GRVNVYKAIK GLINVQAAAQ	720 SIPDIVEWHI SSDIDLYLYD	770 KYDVEGLEPG NYQVDVVSDG	820 YDINGPEMVT FTMNVNSGAT	870 PAAVSNPMPG YANPAPGTWT	920 DTNTEFSIEF
	610 GTSMATPHVS GTSMATPHVS GTSMASPHVA	660 QKYTELDQ G H IA <mark>YG</mark> A FY <mark>YG</mark> K	710 DVIRGLYARN VTATLYWDTG	760 ENNTEFVLRV VKVVSYKGAA	810 TPENNYTLTW VNDYWDTSDT	860 FVFPYQLDYL TSSNSYEHVE	910 SVWYINRTYL
	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES	PFUL TCES	PFUL TCES	PFUL TCES	PFUL

DSB4155.042401

1000	1050	1100	1150	1200	1250	1300	1350	1400	
NLVALDGNPT	QMTLDNGNIK	EVYQDTNTSI	LEPVPNATVI	EKTFQITVSE	VEITINGTAN	VKFASPVTVT	LGVDNETLAL	INEMKAVKIL	
	1040	1090	1140	1190	1240	1290	1340	1390	
PDLYLYDSKG	PTTTTFDLVV	YSGIIEIRDN	YTLIVKHALT	IVKKENFNTL	SEGGVKKTVT	GEYAKYVIIT	FDELYQKALE	RLLPPLRQAY	
980	1030	1080	1130	1180	1230	1280	1330	1380	
IGNPSVPNSD	GYSVRDENGN	TIDRDHPTGV	AEGVLGEARN	TKLGSDEITV	NATIVSVEME	DHVISYSIEE	YSWYRLYSQK	GNIIQYLGDI	
970	1020	1070	1120	1170	1220	1270	1320	1370	*
PEGTAELKIR	KPGVYSIVVH	NESVVVTANI	KADFAVGLTP	NGTVTFTYAP	PKLAMSSPEA	KKAENIEVSG	VSILTLNFLG	YYEKALELSE	ঘ
960	1010	1060	1110	1160	1210	1260	1310	1360	1410
GEFFIKGIEV	AEEEVVVEYP	LDKDSIILGS	AKIPITLVID	IGNYTYLTDE	PEITEEDINE	ETATIVVPVP	VTYTIYAGPR	ALSYHEKAKE	EKAIEELEGE
PFUL									

Fig. 13



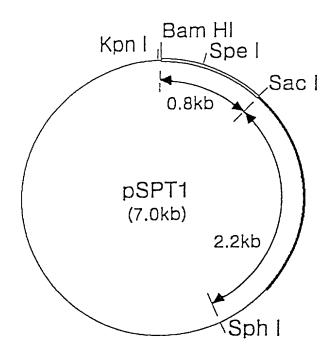
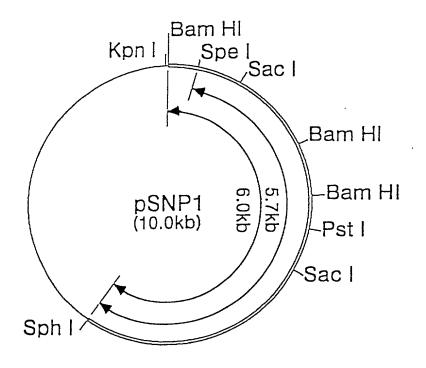


Fig. 15



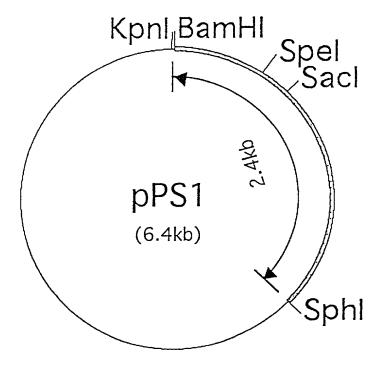
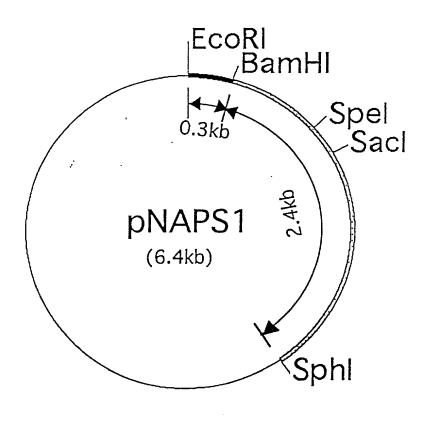


Fig. 17



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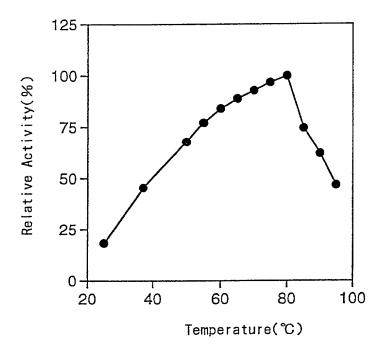
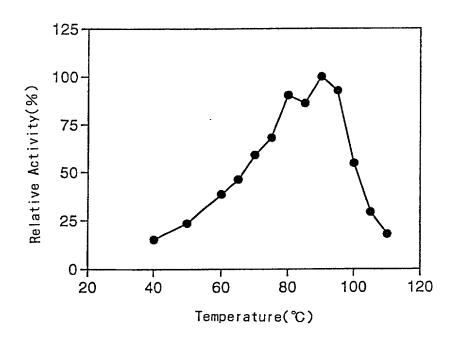
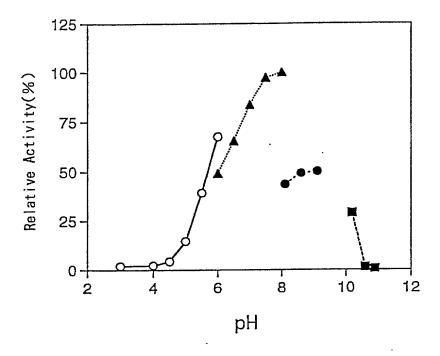


Fig. 19



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Fig. 20



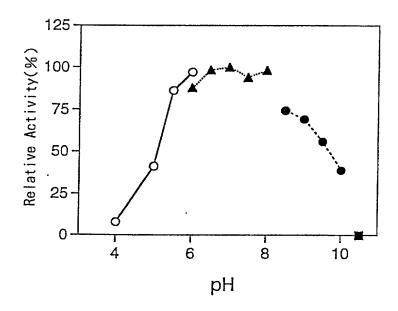
Sodium acetate buffer

Sodium phosphate buffer

Sodium borate buffer

Sodium borate buffer

Sodium phosphate-sodium hydroxide buffer

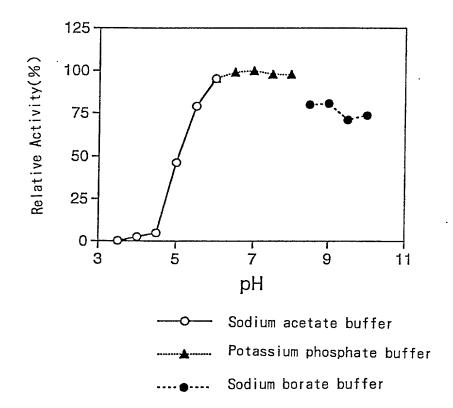


Potassium phosphate buffer

---- Sodium borate buffer

---- Sodium phosphate-sodium hydroxide buffer

Fig. 22



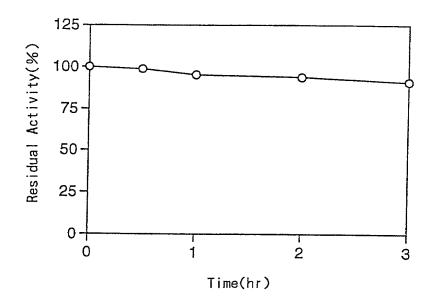
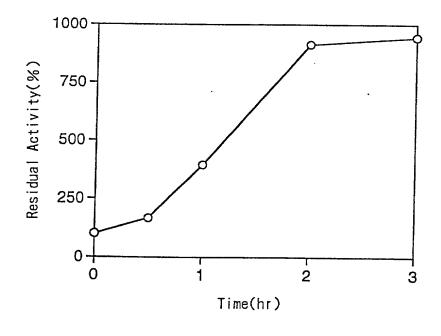
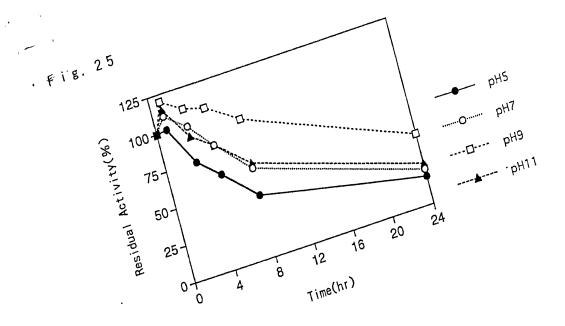


Fig. 24



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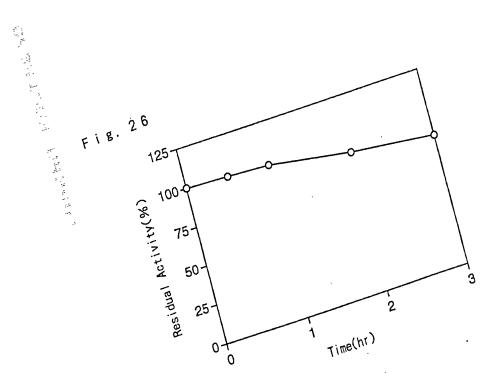
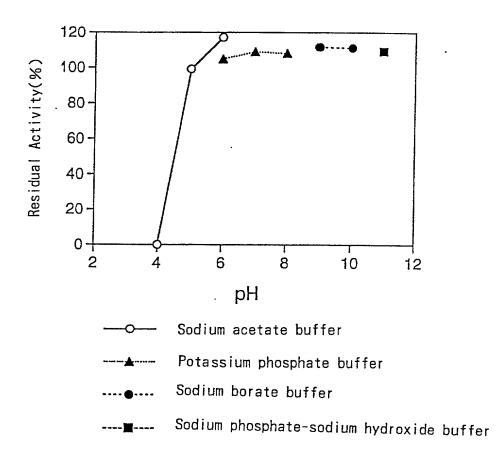


Fig. 27



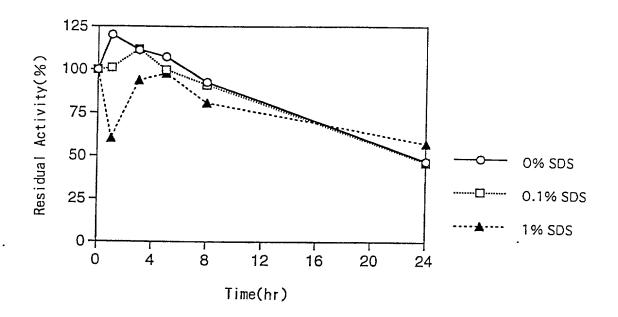
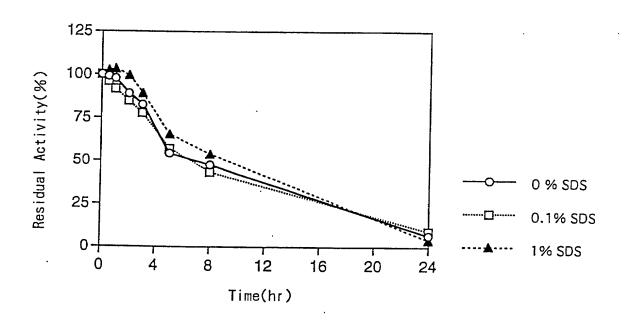
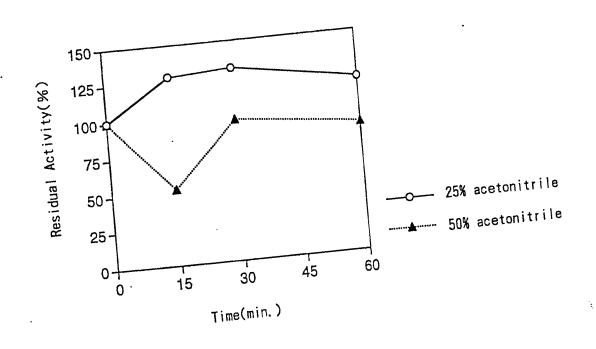


Fig. 29





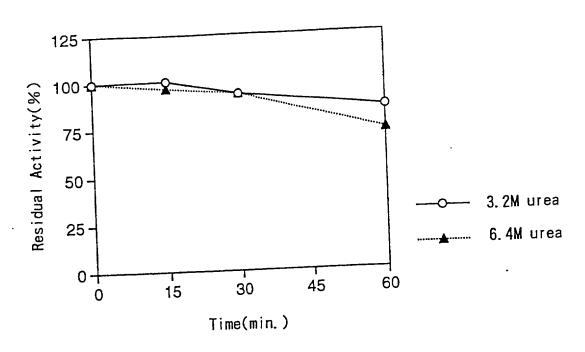
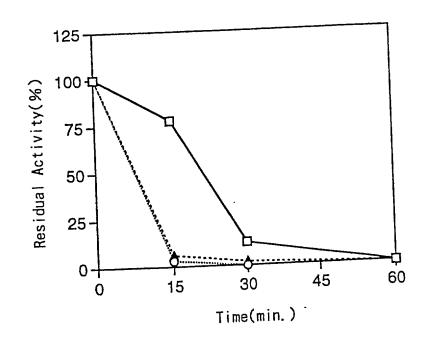


Fig. 32



1M guanidine hydrochloride

3.2M guanidine hydrochloride

6.4M guanidine hydrochloride